

COLLEGE MANAGEMENT ANDROID APPLICATION

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ABSTRACT

Mobile technology is one of the vast technologies that have been spreading between people. The main motivation behind mobile technology is to connect people with each other. Mobile technology has introduced new Environment among student and teacher that can be used to improve today's learning system. College Management Android Application (CMAA) provides a simple interface for maintenance of college information. The Admin, Faculty or the Student should be a registered user. Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, and other resource related details too. It will also have faculty details, batch execution details, students' details in all aspects, the various academic notifications to the staff and students updated by the college administration. Other than this the advanced features are: faculty's absence in the college will be notified to students and college administration so that they can accordingly plan their day-to-day classes. Any new notice for a particular semester will be uploaded by professor through application notifying to respective semester students. Students can download different subject notes according to their departments.

Keywords: Circular, Profile, Android Operating System, Students, Availability, Circular Information, Marks.

I. INTRODUCTION

The design and implementation of the system is to provide service in Institute and Colleges. The system is to provide comprehensive student information system and user interface is to replace the current paper records. The main objective of College Management Application is to automate all functionalities of a college or university. Using this system you can manage all college management work like admission, fees submission, time table management and result declaration. Using this college management system, you can view or update data and information about students and staff easily. Our proposed application consists of module such as Login. Once the user registers his/her institution, he/she act as Administrator of the college. All data is stored securely in database managed by the college Administrator. The system decreases paperwork and time needed to access faculty and student records. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. Admin has all the Collective records of students of all the branches. Admin can check all the records of faculties of all departments anytime and this system gives easy approach to find the detail information for any student. It also assists in uploading notices on the latest information about the campus. College Faculties can upload attendance, results, assignments, and notices to the students. He can also check his daily schedule and manage taking classes accordingly. This generic application is also designed for assisting the students of an Institution regarding information on the courses, subjects, classes, assignments, grades and class timetable. This application logging system helps in tracking all users' access and ensures conformity to data access guidelines and is expected to increase the efficiency of the college's record management thereby decreasing the work hours needed to access and deliver student and faculty records to users.

II. LITERATURE SURVEY

This paper is aimed at developing an Online Intranet College Management System that is of importance to either an educational institution or a college. The system is an Intranet based application that can be accessed throughout the institution or a specified department. This system may be used for monitoring attendance for the college. Students as well as staffs logging in may also access or can be search any of the information regarding college. Attendance of the staff and students as well as marks of the students will be updated by staff. This system is being developed for an engineering college to maintain and facilitate easy access to information.

[1]

This paper tells that the system that can be achieved throughout the institution or a specified department. This system may be used for search attendance for the college. Staffs as well as students logging in may also access or can be search any of the information regarding department. Attendance of the students as well as marks of the students will be improved by staff. For this the users must be registered with the system after which they can access as well as transform data as per the permissions given to them. [2]

Attendance is part of any system to keep track of the particular person. It is mandatory process in educational system which directly reflects the student progress. As we are using the smart phones, we do not require maintaining attendance register. It can be easily done in mobile application. Faculty will take the attendance when class gets started. They will initially login to the system through mobile application. The faculties can also do the necessary functions like registering new students, deleting the information about a particular student, modifying the information regarding the student etc.[3]

The model utilizes computer aided system. The model plays main role in an institution or in the college management. Initially, the system has developed with four layers based on the hierarchy such as Web display layer where application is deployed and displayed for end users. Business logic layer is responsible for handling the functionality of the product. Data access layer is responsible for viewing the data. Database layer is responsible for storing the student data. In Database layer ER diagram has been designed to provide data normalization. The process provides complete information about student, faculties and educational institution.[4]

III. PROPOSED METHODOLOGY

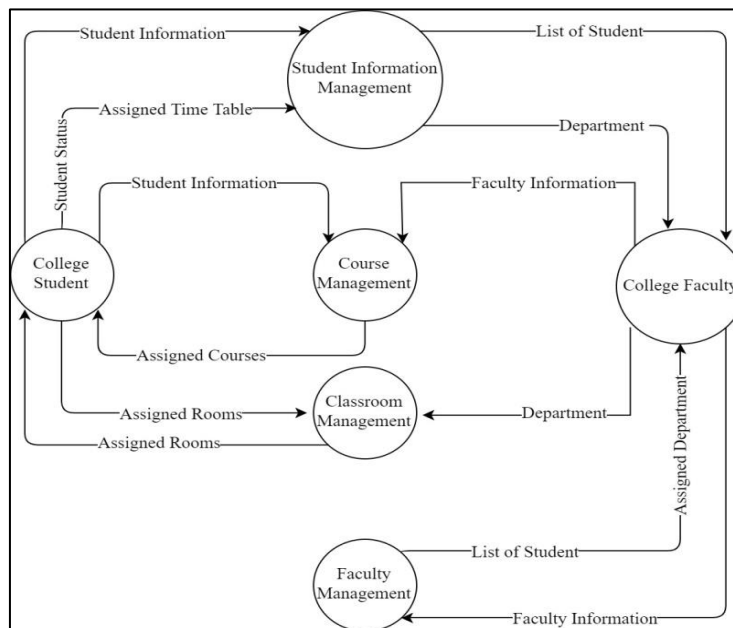


Fig 1: Level 1 DFD

- **Login:** After completion of the registration, user can login into the application by providing valid details. The user needs to enter the same details to login which they had used during the registration process. If the user enters incorrect details to login, then an error message will be displayed that either the username or password is incorrect. If the user tries to login without registering then login will be unsuccessful. If the registered user remembers their username but doesn't know the password then the user can click on the forgot password button to reset the password. If the login fails then the user will remain on the same login page.
- **Forgot Password:** When any of the registered user forgets password, in that case the user can reset the password. When user clicks on 'forgot password' the application asks the user for Email ID and checks that user in firebase. If the user exists, a mail is sent to the respective user that contains a link to reset the password. After changing the password user can easily login into the application.
- **Admin:** When the user registers as an admin, he/she has the complete access to the information in the application. The admin can add a faculty, view attendance of both faculty and students, add or remove faculty,

notify faculty and students about any events or important information regarding the academics, manage the expense of the college, create the timetable, plan holidays accordingly, manage information regarding hostel, view student marks, transport details and view canteen menu.

- **Faculty:** When the user registers as a faculty, he/she has access to apply leave as a faculty, view student's leave, take student attendance, add or remove students, manage academics, generate report card, canteen menu and view timetable.
- **Student:** When the user registers as a student, he/she can apply leave, give feedbacks, view notes, view holidays, view classes, view report card, view notifications, view timetable, view transport location and view canteen menu.

IV. RESULT AND DISCUSSION

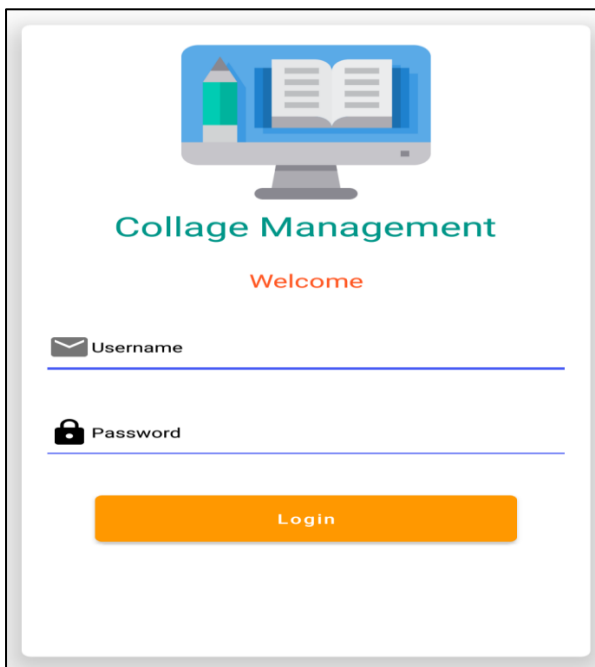


Fig 2: Login Module

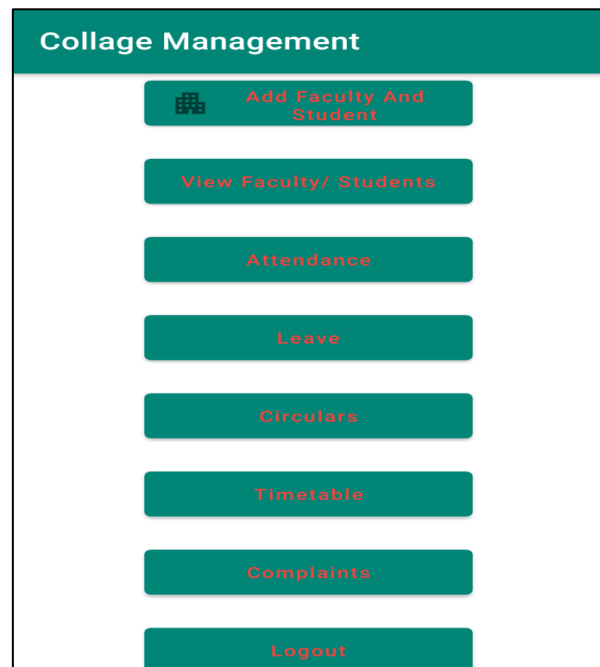


Fig 3: Admin Module

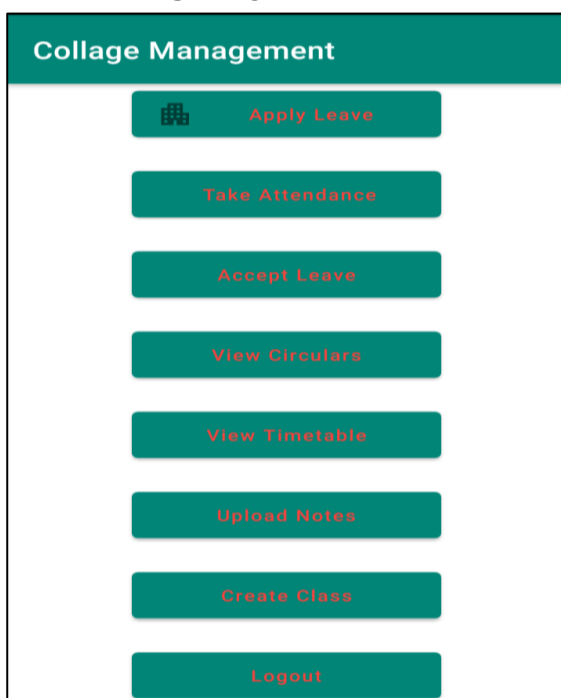


Fig 4: Faculty Module

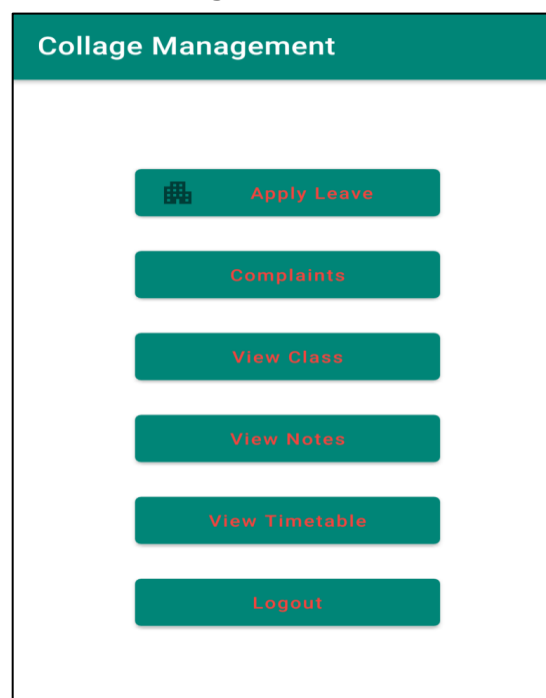


Fig 5: Student Module

V. CONCLUSION

College Management Application assists in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced. All years together gathered information can be saved and can be accessed at any time. The data which is stored in the repository helps in taking intelligent decisions by the management. So, it is better to have an Application Based Information Management system. All the Students, Faculty and Management can get the required information without delay. This system is essential in the Colleges and Schools Institutions.

VI. REFERENCES

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